

(MC 1 ANAPHY): Integumentary System

TOPIC OUTLINE

- [1] INTEGUMENTARY: Parts and Functions
- [2] SKIN STRUCTURE
- [3] SKIN APPENDAGES

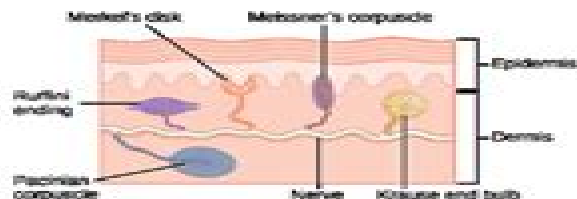
INTEGUMENTARY SYSTEM

- composed of skin (cutaneous membrane) and skin appendages such as:

- oil glands
- sweat glands
- hair
- nails

FUNCTIONS

- [1] Protects the entire body from:
 - Mechanical damage (bumps and cuts)
 - Chemical damage (acids and bases)
 - Microbes (bacteria)
 - Ultraviolet (UV) radiation (sunlight)
 - Thermal damage (heat or cold)
 - Desiccation (drying out)
- [2] Insulates and cushion deeper body organs
- [3] Aids in loss or retention of body heat as controlled by the nervous system
- [4] Aids in excretion of urea and uric acid
- [5] Synthesizes vitamin D
- [6] Sensation/sensory perception
- [7] Thermoreceptors (sensing temperature changes)
 - HEAT receptor: RUFFINI
 - COLD receptor: KRAUSE
- [8] Mechanoreceptors (sensing external stimuli)
 - DEEP PRESSURE & HIGH-FREQUENCY VIBRATION receptors: Pacinian corpuscles by FILIPPO PAGINI
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 - SENSATION (stretch on skin): Ruffini's endings by ANGELO RUFFINI
 - LIGHT TOUCH: MERKEL'S DISK
- [9] Nociceptors (sensing pain)
 - Pain receptor: FREE NERVE ENDINGS

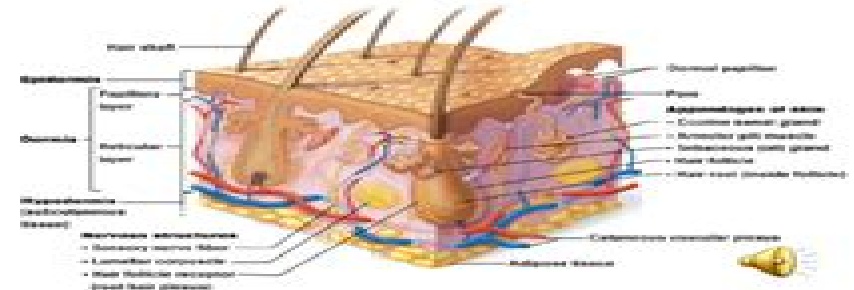


SKIN STRUCTURE

Two kinds of tissue compose the skin:

- Epidermis
- Dermis

Hypodermis (subcutaneous layer/superficial fascia) Not technically part of the integumentary system



SKIN STRUCTURE

EPIDERMIS (outer layer)

- stratified squamous epithelium
- capable of being hard and tough
- composed of keratinocytes (the most common cell) produce a fibrous protein called keratin
- Avascular

5 LAYERS (STRATA) OF EPIDERMIS from deepest to most superficial

1. Stratum basale

- Deepest layer of epidermis
- Lies next to dermis
- Wavy borderline with the dermis anchors the two together
- Contains cells undergoing mitosis
- Daughter cells are pushed upward to become the more superficial layers

2. Stratum spinosum

- Cells become increasingly flatter and more keratinized
- Cells contain thick bundles of intermediate filaments made of pre-keratin

3. Stratum granulosum

- Cells are flattened
- Organelles are deteriorating: cytoplasm full of granules

Integumentary System Outline Guide

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Velavancorresponding



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